

Tennessee Department of Environment and Conservation Division of Water Resources

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 1-888-891-8332 (TDEC)

Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 INFORMATION

City	y of Kingsport	TNS0753	88			
Nar	me of MS4	MS4 Perr	nit Number			
Ste	phen Robbins, P.E.	steverobb	ins@kingsporttn.gov			
Nar	me of Contact Person	Email Ad	dress			
_	3)245-2167					
Tele	ephone (including area code)					
	W. Center St.					
Mai	iling Address					
	gsport	TN	37660			
City	4	State	ZIP code			
Wha	at is the current population of your MS4?	51,400				
Wha	at is the reporting period for this annual rep	port? From 7/1/14	to 6/30/15			
2.	WATER QUALITY PRIORITIES (SECTION	3.1)				
	A. Does your MS4 discharge into waters 103(d) list and/or according to the on-line G		s most current	⊠Y	es	□No
I	B. If yes, please attach a list all impaired	waters within your jurisd	ictional area.			
(C. Does your MS4's jurisdictional area co other than pathogens, siltation and hab	· ·		en approve	_	rameters ⊠ No
Ι	D. Does your MS4 discharge to any Excel National Resource Waters (ONRWs)?	•	,		Yes	⊠ No
F	E. Are you implementing additional speci ETWs or ONRWS located within your	-	he continued integrit	y of	Yes	⊠ No
3. Pi	ROTECTION OF STATE OR FEDERALLY LI	ISTED SPECIES (SECTION	3.2.1 General Pern	nit for Pha	ıse II M	IS4s)
	A. Are there any state or federally listed sp	pecies within the MS4's j	urisdiction?	⊠ Yes		No
I	B. Are any of the MS4 discharges or discharge any state or federally listed species?	harge-related activities lik	cely to jeopardize	☐ Yes		No
(C. Please attach any authorizations or determined discharges on state or federally listed space.	*	& Wildlife Service o	n the effec	t of the	MS4
4. P	PUBLIC EDUCATION AND PUBLIC PARTIC	CIPATION (SECTION 4.2.1	AND 4.2.2)			
A	A. Have you developed a Public Information	on and Education plan (P	IE)?		Yes	☐ No
F	B. Is your public education program target pollutants, such as Hot Spots?	ting specific pollutants ar	d sources of those	\boxtimes ?	Yes	□ No

Impaired Water		Approved TMDL	MS4 Assigned to WLA
	Alteration in stream-side		
1	vegetative cover. Loss of		
	biological integrity due to		
Little Horse Creek	siltation. Eschericia coli.	No	Yes
	Alteration is stream-side		
Horse Creek	vegetative cover.	No	Yes
	Alteration in stream-side		
Unnamed Tributary	vegetative cover. Loss of		
to South Fork	biological integrity due to		
Holston River	siltation. Eschericia coli.	Yes	No
	Alteration in stream-side		
	vegetative cover. Loss of		
	biological integrity due to		
Fall Creek	siltation. Eschericia coli.	No	Yes
	Physical substrate habitat		
Unnamed Tributary	alterations. Loss of biological		
to Reedy Creek	integrity due to siltation.	No	Yes
The state of the s	Alterations in stream-side	NO	1 62
Unnamed Tributary			
to Reedy Creek	vegetative cover. Loss of biological integrity due to		
(Leslie Branch)	siltation. Eschericia coli.	> T	\$7
(Lesite Branch)	Loss of biological integrity due to	No	Yes
Clark Branch	siltation. Escherichia coli.	3. Y	*7
Clark Dianell	Alterations in stream-side or	No	Yes
	littoral vegetative cover.		
Gravelly Creek	Nitrate+Nitrite.	.	***
Glavelly Cleek	Loss of biological integrity due to	No	Yes
Miller Branch	siltation. Escherichia coli	NT.	37
Willier Dialien	Alteration in stream-side	No	Yes
	1		
	vegetative cover. Nitrate+Nitrite.		
	Low dissolved oxygen. Loss of		
Gammon Creek	biological integrity due to siltation. Eschericia coli.	**	**
Gainmon Creek		Yes	Yes
	Loss of biological integrity due to		
	siltation. Alterations in stream-		
	side vegetative cover. Eschericia	.,	
	coli. Escherichia coli	No	No
	Alterations in stream-side	No	No
	1		
* 1	vegetative cover. Loss of		
!	biological integrity due to	**	
TOTSTOIL KIVEL	siltation. Eschericia coli.	Yes	No

0 (1.17. 1.17.1.)	Low dissolved oxygen. Habitat		
South Fork Holston	loss due to stream flow alterations.	,	
River	Thermal modifications.	No	No
	Alteration in stream-side		
1	vegetative cover. Loss of		
	biological integrity due to		
Wagner Creek	siltation. Escherichia coli.	Yes	Yes
	Alterations in stream-side or		
	littoral vegetative cover.		
Kendrick Creek	Eschericia coli.	No	Yes
	Alterations in stream-side or		
Rock Springs Branch	littoral vegetative cover.	No	Yes
	Physical substrate habitat		
Madd Branch	alterations. Escherician coli.	Yes	Yes
	Other anthropogenic habitat		
Tranbarger Branch	alterations. Eschericia coli.	Yes	Yes
	Loss of biological integrity due to		***************************************
	siltation. Other anthropogenic	ĺ	
	habitat alterations. Eschericia		
Reedy Creek	coli.	Yes	Yes
	Alterations in stream-side or		
Gaines Branch	littoral vegetative cover.	No	Yes
Russell Creek	Escherichia coli	No	No
	Alteration in stream-side or littoral		
Bear Creek	vegetative cover. Eschericia coli.	No	No



United States Department of the Interior

FISH AND WILDLIFE SERVICE 446 Neal Street Cookeville, TN 38501

June 11, 2014

Mr. Dan Wankel, P.E. Stormwater Services City of Kingsport 1644 Fort Henry Drive Kingsport, Tennessee 37664

Re: FWS #14-EC-0065

Dear Mr. Wankel:

Thank you for your e-mail received May 15, 2014, regarding compliance with the Endangered Species Act (ESA) in reporting requirements for the City of Kingsport Small MS4 permit (TNS075388) program in Sullivan and Hawkins Counties, Tennessee. We appreciate the detailed information regarding your specific program requirements, regulations, and monitored outfall locational data. U.S. Fish and Wildlife Service personnel have reviewed this information and offer the following comments.

Review of our endangered species database indicates that the federally threatened spotfin chub (Erimonax monachus) may occur in the Moccasin Creek and North Fork Holston River watersheds in the northern portions of Kingsport. Also, two insects presently considered to be a "species of concern" (Sevier snowfly and Cherokee clubtail) are also known from small streams or wetlands within or adjacent to your jurisdictional boundaries. All of these aquatic species benefit from MS4 practices that improve water and habitat quality. In addition to the aquatic species listed above, you should be aware that, while there are presently no known records in your jurisdiction, the recently proposed federally endangered Northern long-eared bat (Myotis septentrionalis) and endangered Indiana bat (Myotis sodalis) may be found in trees with appropriate summer roost habitat within your jurisdiction. We appreciate the efforts of Kingsport's stormwater management program in helping to ensure that the quantity and quality of stormwater discharges from development activities in upland areas protect the water quality of the receiving streams within your jurisdictional boundaries and in downstream areas.

Thank you for the opportunity to comment. If you have any questions, please contact Steve Alexander of my staff at 931/528-6481, ext. 210, or via e-mail at steven_alexander@fws.gov.

Sincerely,

Peggy W. Shull Mary E. Jennings Field Supervisor

XC: Robert Karesh, TDEC, Nashville Paul Higgins, TDEC, Nashville

Municipal Separate Storm Sewer System (MS4) Annual Report C. If yes, what are the specific causes, sources and/or pollutants addressed by your public education program? MS4

		onstruction site runoff; illicit discharges targeting septage, sediment, oil and grease; professi cators of pesticides, herbicides and fertilizer; automotive-related fluids and illegal dumping.	onal chemical	
	D.	Note specific successful <u>outcome(s)</u> (NOT tasks, events, publications) fully or partially at education program during this reporting period. <u>Continued downward trend in amount of stream cleanups</u> ; increase in public input stemming from website, hotline, handouts, publications.	debris collected	l during
	E.	Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program?	☐ Yes	⊠ No
	F.	How do you facilitate, advertise, and publicize public involvement and participation oppopublic hearings, recognitions of achievement, workshops, and school activities are publish and/or online. Household Hazardous Waste Roundup flyers are distributed to target audie	ned in the news	
	G.	Do you have a webpage dedicated to your stormwater program?	⊠ Yes	□ No
		If so, what is the link/URL: http://publicworks.kingsporttn.gov;stormwater-management		
	H.	Are you tracking and maintaining records of public education, outreach, involvement and participation activities? Please attach a summary of these activities.	⊠ Yes	□No
5	. IL	LICIT DISCHARGE DETECTION AND ELIMINATION (SECTION 4.2.3)		
	A.	Have you completed a map of all outfalls and receiving waters of your storm sewer system?	⊠ Yes	□No
	В.	Have you completed a map of all storm drain pipes of storm sewer system?	□Yes	⊠ No
	C.	How many outfalls have you identified in your system? 920		
	D.	Have any of these outfalls been screened for dry weather discharges?	⊠Yes	□No
	F.	What is your frequency for screening outfalls for illicit discharges? Once each perm	it cycle	
	G.	Do you have an ordinance that effectively prohibits illicit discharges?	⊠ Yes	□No
	H.	During this reporting period, how many illicit discharges/illegal connections have you discreported to you)? 6	covered (or bee	en
	I.	Of those illicit discharges/illegal connections that have been discovered or reported, how reliminated? 4	nany have been	n
6.	Co	ONSTRUCTION SITE STORMWATER RUNOFF (SECTION 4.2.4)		
	A.	Do you have an ordinance or adopted policies stipulating:		
		Erosion and sediment control requirements?	⊠ Yes	□No
		Other construction waste control requirements?	⊠ Yes	□No
		Requirement to submit construction plans for review?	⊠ Yes	□No
		MS4 enforcement authority?	⊠ Yes	□No
	B.	How many active construction sites disturbing at least one acre were there in your jurisdict period? $\underline{58}$	tion this report	ing
	C.	How many of these active sites did you inspect this reporting period? 56		
	D.	On average, how many times each, or with what frequency, were these sites inspected (e.g., weekly, monthly, etc.)?	Monthly	

NPDES BMP Permit Requirements

1) PUBLIC EDUCATION AND PUBLIC PARTICIPATION

BA	BMP 1A	
	GOAL	Provide multi-media messages about storwater issues to the public.
	ACTION 1:	ACTION 1: Participate in Tennessee Association of Broadcaster (TAB) program.
	ACTION 2:	ACTION 2: Newspaper Articles
		Rain barrel workshop; Meadow Garden wetlands project; Stormwater Management Award; Public Meeting notices
	ACTION 3:	ACTION 3: Television/Radio
		Local cable access; AM Tri-Cities
	ACTION 4:	ACTION 4: Tennessee Stormwater Association
		Use state-wide organization's newsletters and website to promote stormwater topics and events
	ACTION 5:	ACTION 5: Brochures/Handouts
		Single/small lot development requirements; Annual Household Hazardous Waste Roundup

BMP 1B	
GOAL	Increase public participation and input.
ACTION .	ACTION 1: Stormwater Hotline.
	Provide telephone access dedicated to stormwater-related complaints and issues. Kingsport public works website w/ contact information for public complaint submittal and referral.
ACTION	ACTION 2: Stormy Campaign
	Implement 'stormwater protector' wireless game; Mascot appearances; Use logo wherever appropriate

ACTION 2. L	Joleton Discussive and Market and Millians
ACTION 3.	ACTION 5. Moiston Kiver Watersnea Alliance
A.	Re-establish local partnership with leadership to enhance community-based activities
ACTION 4: Events	Vents
S	Stream cleanups, Rain barrel workshop; Kiwanis presentation; Preston Hills Presbyterian Church presentation; BMA presentation and
n	update on projects and funding
ACTION 5: S	ACTION 5: Stormwater Advisory Committee
Ь	Provide cross section of community partners to provide guidance in policy and implementation

BN	BMP 1C	
	GOAL	Increase awarness in targeted City schools and classrooms.
	ACTION 1.	ACTION 1: Distribute "Discover the Waters of Tennessee" workbook to all 4th graders.
		Approxiamately 550 copies are distributed to the Kingsport City School System fourth graders annually
	ACTION 2: Events	Events
		Stormy campaign; Trout in the Classroom project; Washington Elementary day; Robinson Middle School field days; STREAM Camp
	ACTION 3: Projects	Projects
		Working with superintedant to incorporate stormwater-related upgrades into operation and maintenance program.

BM	BMP 1D	
	GOAL	Provide iternet-based, comprehensive public information City website.
	ACTION 1:	ACTION 1: Maintain and upgrade City's stormwater pages.
		The website contains udpdated information on storwater program activities, water quality issues, regulatory requirements, educational
		materials, project updates and public participation opportunities.
	ACTION 2:	
•		

	E. Do you prioritize certain construction sites for more frequent inspections?	⊠Yes	☐ No
	If Yes, based on what criteria? <u>During beginning and/or critical stages, discharge to in to environmentally sensitive areas and hot spots</u>	npaired stream	s, proximity
7.	PERMANENT STORMWATER CONTROLS (SECTION 4.2.5)		
1	A. Do you have an ordinance or other mechanism to require:		
	Site plan reviews of all new and re-development projects?	⊠ Yes	□No
	Maintenance of stormwater management controls?	⊠ Yes	□No
	Retrofitting of existing BMPs with green infrastructure BMPs?	☐ Yes	⊠ No
F	What is the threshold for new/redevelopment stormwater plan review? (e.g., all projects greater than one acre, etc.) <u>All projects</u>	, projects distu	rbing
C	Have you implemented and enforced performance standards for permanent stormwater controls?	⊠ Yes	□No
Ε	Do these performance standards go beyond the requirements found in Section 4.2.5.2 an development hydrology be met for:	d require that	pre-
	Flow volumes	⊠ Yes	□ No
	Peak discharge rates	⊠ Yes	□ No
	Discharge frequency	⊠ Yes	□ No
	Flow duration	⊠ Yes	□No
E	Please provide the URL/reference where all permanent stormwater management standard	ds can be found	d.
	http://publicworks.kingsporttn.gov/files/publicworks/Stormwater-Management-Manual.p	<u>pdf</u>	
F.	How many development and redevelopment project plans were reviewed for this reporting	ng period?	<u>11</u>
G	How many development and redevelopment project plans were approved? 10		
Н	How many permanent stormwater management practices/facilities were inspected?	<u>153</u>	
I.	How many were found to have inadequate maintenance? 12		
J.	Of those, how many were notified and remedied within 30 days? (If window is different specify) Six. The remainder are on compliance schedules or will be maintained by the M		please
K.	How many enforcement actions were taken that address inadequate maintenance? 5		
L.	Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance?	⊠ Yes	□No
M	Do all municipal departments and/or staff (as relevant) have access to this tracking system?	⊠ Yes	□No
N.	Has the MS4 developed a program to allow for incentive standards for redeveloped sites?	⊠ Yes	□No
O.	How many maintenance agreements has the MS4 approved during the reporting period?	7	
8. Co	DES AND ORDINANCES REVIEW AND UPDATE (SECTION 4.2.5.3)		
A.	Is a completed copy of the EPA Water Quality Scorecard submitted with this report?	⊠ Yes	□ No

B. Include status of implementation of code, ordinance and/or policy revisions associated with permanent stormwater management. Scorecard completed 5/19/12, establishing initial baseline. Review and updates will be incorporated into revised ordinance(s) or policy(ies).

9.	STORMWATER MANAGEMENT FOR MUNICIPAL OPERATIONS	SECTION 4.2.0	5)
----	--	---------------	----

A.	Have stormwater pollution prevention plans (or an equivalent plan) been developed for:					
	All parks, ball fields and other recreational facilities	⊠ Yes	□No			
	All municipal turf grass/landscape management activities	⊠ Yes	□ No			
	All municipal vehicle fueling, operation and maintenance activities	⊠ Yes	□ No			
	All municipal maintenance yards	⊠ Yes	□ No			
	All municipal waste handling and disposal areas	⊠ Yes	□ No			
B.	Are stormwater inspections conducted at these facilities?	⊠ Yes	□ No			
	1. If Yes, at what frequency are inspections conducted? Quarterly					
C.	Have standard operating procedures or BMPs been developed for all MS4 field activities? (e.g., road repairs, catch basin cleaning, landscape management, etc.)	⊠ Yes	□No			
D.	Do you have a prioritization system for storm sewer system and permanent BMP inspections?	⊠ Yes	□No			
E.	On average, how frequently are catch basins and other inline treatment systems inspected?	Twice/	year			
F.	On average, how frequently are catch basins and other inline treatment systems cleaned out	/maintained?	2/year			
G.	Do municipal employees in all relevant positions and departments receive comprehensive training on stormwater management?	⊠ Yes	□ No			
H.	If yes, do you also provide regular updates and refreshers?	⊠ Yes	□No			
	If so, how frequently and/or under what circumstances? <u>No less than annually</u>					
10. ST	ORMWATER MANAGEMENT PROGRAM UPDATE (SECTION 4.4)					
A.	Describe any changes to the MS4 program during the reporting period including but not limited to:					
	Changes adding (but not subtracting or replacing) components, controls or other requirements. None	nts (Section 4.4	4.2.a).			
	Changes to replace an ineffective or unfeasible BMP (Section 4.4.2.b). None					
	Information (e.g. additional acreage, outfalls, BMPs) on program area expansion based on annexation or newly urbanized areas. Annexed 27.8 acres with 2 outfalls					
	Changes to the program as required by the division (Section 4.4.3). None					

11. EVALUATING/MEASURING PROGRESS

A. What indicators do you use to evaluate the overall effectiveness of your Stormwater Management Program, how long have you been tracking them, and at what frequency? Note that these are not measurable goals for individual BMPs or tasks, but large-scale or long-term metrics for the overall program, such as in-stream macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	Number of Locations
Example: E. coli	2003	Weekly April–September	20

E. coli	2011	Once every permit cycle	11	
SQSH/VSA	2011	Once every permit cycle	16	

B. Provide a summary of data (e.g., water quality information, performance data, modeling) collected in order to evaluate the performance of permanent stormwater controls installed throughout the system. This evaluation may include a comparison of current and past permanent stormwater control practices. <u>Available upon request</u>

12. ENFORCEMENT (SECTION 4.5)

with stormwater issues)?

12

A. Identify which of the following types of enforcement actions you used during the reporting period, indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater control) or note those for which you do not have authority:

Permanent

	Action	Construction	Stormwater Controls	Illicit Discharge	Author	ity?
Not	ice of violation	# <u>26</u>	# <u>4</u>	# <u>1</u>	⊠ Yes	□ No
Adr	ninistrative fines	# <u>3</u>	#	#	⊠ Yes	□ No
Stop	Work Orders	#	#	#	⊠ Yes	□ No
Civi	l penalties	#	#	#	⊠ Yes	□ No
Crin	ninal actions	#	#	#	⊠ Yes	□ No
Adn	ninistrative orders	# <u>5</u>	#	#	⊠ Yes	□ No
Othe	er	#	#	#		
В.	•	ronic tool (e.g., GIS, ond enforcement action	•	t) to track the locations,	⊠ Yes	□No
C.		common types of vic		luring this reporting per	iod? <u>Inspection</u>	frequency,
13. PF	ROGRAM RESOURCES	(OPTIONAL)				
A. What was your annual expenditure to implement the requirements of your MS4 NPDES permit and SWMP this past reporting period? \$2,124,250					WMP this	
B.	What is next year's l \$2,150,000	budget for implement	ing the requirements	of your MS4 NPDES pe	ermit and SWN	ſP?
C.	Do you have an inde	pendent financing me	echanism for your sto	rmwater program?	⊠ Yes	□ No
D.	If so, what is it/are th	ney (e.g., stormwater	fees), and what is the	annual revenue derived	from this mec	hanism?
	Source: Utility user f	fee		Amount \$	\$2,150,000	
	Source:			Amount \$		
E.	How many full time employees does your municipality devote to the stormwater program (specifically for				y for	

implementing the stormwater program vs. municipal employees with other primary responsibilities that dovetail

r.	Do you snare program	implementation responsibilities with	any other entities?	∐ Y es	⊠ No	
Entit	y	Activity/Task/Responsibility	Your Oversight/Accou	ccountability Mechanism		
***************************************			***************************************			
G. Pl	lease attach a copy of yo	our Organizational Chart				

14. CERTIFICATION

This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

"I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."

Printed Name and Title

CN-1291(Rev.11-12)

ure

Annual reports must be submitted in accordance with the requirements of Section 5.4. (Reporting) of the permit. Annual reports must be submitted to the appropriate Environmental Field Office (EFO) by September 30 of each calendar year, as shown in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	540 McCallie Avenue STE 550	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 432-4015
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000

APPROVED AS TO FORM:

J. Mich of Blysly
CITY ATTOMNEY

